

COMBINED DECLARATION AND POWER OF ATTORNEY

(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL, CONTINUATION OR C-I-P)

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

This declaration is of the following type:

(check one applicable item below)

- [x] original.
- [] design.
- [] supplemental.

NOTE: IF THE DECLARATION IS FOR AN INTERNATIONAL APPLICATION BEING FILED AS A DIVISIONAL, CONTINUATION OR CONTINUATION-IN-PART APPLICATION, DO NOT CHECK NEXT ITEM; CHECK APPROPRIATE ONE OF LAST THREE ITEMS.

[] national stage of PCT.

NOTE: IF ONE OF THE FOLLOWING 3 ITEMS APPLY, THEN COMPLETE AND ALSO ATTACH ADDED PAGES FOR DIVISIONAL, CONTINUATION OR C-I-P.

- [] divisional.
- [] continuation.
- [] continuation-in-part (C-I-P).

INVENTORSHIP IDENTIFICATION

WARNING: IF THE INVENTORS ARE EACH NOT THE INVENTORS OF ALL THE CLAIMS, AN EXPLANATION OF THE FACTS, INCLUDING THE OWNERSHIP OF ALL THE CLAIMS AT THE TIME THE LAST CLAIMED INVENTION WAS MADE, SHOULD BE SUBMITTED.

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor (IF ONLY ONE NAME IS LISTED BELOW) or an original, first and joint inventor (IF PLURAL NAMES ARE LISTED BELOW) of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

REACTION AND SEPARATION METHODS

SPECIFICATION IDENTIFICATION

the specification of which:

(complete (a), (b) or (c))

- (a) [] is attached hereto.
- (b) [x] was filed on <u>February 18, 2000</u>, as [] Serial No. <u>09/506,779</u> or [] Express Mail No. ______, as Serial No. not yet known and was amended on _____(IF APPLICABLE).

NOTE: AMENDMENTS FILED AFTER THE ORIGINAL PAPERS ARE DEPOSITED WITH THE PTO THAT CONTAIN NEW MATTER ARE NOT ACCORDED A FILING DATE BY BEING REFERRED TO IN THE DECLARATION. ACCORDINGLY, THE AMENDMENTS INVOLVED ARE THOSE FILED WITH THE APPLICATION PAPERS OR, IN THE CASE OF A SUPPLEMENTAL DECLARATION, ARE THOSE AMENDMENTS CLAIMING MATTER NOT ENCOMPASSED IN THE ORIGINAL STATEMENT OF INVENTION OR CLAIMS. SEE 37 CFR 1.67.

(c) [] was described and claimed in PCT International Application No.

and as amended under PCT Article 19 on _______(IF ANY).

ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, S 1.56,

(also check the following items, if desired)

- [x] and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and
 - [] in compliance with this duty, there is attached an information disclosure statement, in accordance with 37 CFR 1.98.

PRIORITY CLAIM (35 U.S.C. S 119(a)-(d))

I hereby claim foreign priority benefits under Title 35, United States Code, S 119(a)-(d) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

(complete (d) or (e))

- (d) [x] no such applications have been filed.
- (e) [] such applications have been filed as follows.

NOTE: WHERE ITEM (C) IS ENTERED ABOVE AND THE INTERNATIONAL APPLICATION WHICH DESIGNATED THE U.S. ITSELF CLAIMED PRIORITY CHECK ITEM (E), ENTER THE DETAILS BELOW AND MAKE THE PRIORITY CLAIM.

PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. S 119(a)-(d)

COUNTRY (OR INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FIL (day, month,			
			[]	YES	NO []
			[]	YES	NO []
			[]	YES	NO []
			[]	YES	ио []
			[]	YES	NO []
CLAIM	FOR BENEFIT OF PRIOR U. (34 U.S.C.		APPLICAT	ION(S)	
	the benefit under Titles provisional application			e, S 1	.19(e) of
PROVISIONAL APPL	ICATION NUMBER		FIL	ING DA	TE
/					
/					
/					

CLAIM FOR BENEFIT OF EARLIER US/PCT APPLICATION(S) UNDER 35 U.S.C. 120

[] The claim for the benefit of any such applications are set forth in the attached ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR CONTINUATION-IN PART (C-I-P) APPLICATION.

ALL FOREIGN APPLICATION(S), IF ANY, FILED MORE THAN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

NOTE: IF THE APPLICATION FILED MORE THAN 12 MONTHS FROM THE FILING DATE OF THIS APPLICATION IS A PCT FILING FORMING THE BASIS FOR THIS APPLICATION ENTERING THE UNITED STATES AS (1) THE NATIONAL STAGE, OR (2) A CONTINUATION, DIVISIONAL, OR CONTINUATION-IN-PART, THEN ALSO COMPLETE ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR C-I-P APPLICATION FOR BENEFIT OF THE PRIOR U.S. OR PCT APPLICATION(S) UNDER 35 U.S.C. S 120.

POWER OF ATTORNEY

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Henry E. Bartony, Jr., Reg. No. 34,772

(check the following item, if applicable)

[] Attached, as part of this declaration and power of attorney, is the authorization of the above-named attorney(s) to accept and follow instructions from my representative(s).

SEND CORRESPONDENCE TO

DIRECT TELEPHONE CALLS TO:

Henry E. Bartony, Jr. Suite 1801 Law & Finance Building 429 Fourth Avenue Pittsburgh, PA 15219 Henry E. Bartony, Jr.

Tel (412) 338-8632 Fax (412) 338-6611

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE(S)

NOTE: Carefully indicate the family (or last) name, as it should appear on the filing receipt and all other documents.

Full name of sole or fire	inventor	Curran
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)
	161	
Inventor's signature	[[
Date 412100	Country of Citizenship	USA
Residence	506 S. Linden Avenue, Pi	ttsburgh PA 15208 USA
Post Office Address	506 S. Linden Avenue, Pi	ttsburgh PA 15208 USA
		·

Full name of second joir Oscar	nt inventor, if any	de Frutos Garcia
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)
Inventor's signature	Ω	
Date 9/20/2000	Country of Citizenship	Spain
Residence C/Teruel 1	6, 2º C, 28020 Madrid, Spa	in
Post Office Address: C.	Teruel 16, 2º C, 28020 Mad	rid, Spain

ADDITIONAL GNATURES

Full name of third jo	int inventor, if any	Oderaotoshi
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)
Inventor'ssignature_	yoj Oderatos	4.
Date	CountryofCitizenshi	
Residence: 201 Highre	oofshirakibaru,1-12-13,Chuo	ı, Onojou, Fukuoka, 816-0942 Japan
PostOfficeAddress_	201 Highroofshirakibaru,1-	12-13,Chuou, Onojou,Fukuoka,



#3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Dennis P. Curran et al Group No.: to be assigned Examiner: to be assigned

Filed: February 18, 2000

REACTION AND SEPARATION METHODS

Box Missing Part
Assistant Commissioner for Patents
Washington, D.C. 20231



COMPLETION OF FILING REQUIREMENTS

(check and complete this item, if applicable)

I. [x] This replies to the Notice to File Missing Parts of Application (PTO-1533) mailed April 24, 2000 ______.

NOTE: If these papers are filed before the office letter issues, adequate identification of the original papers should be made, e.g., in addition to the name of the inventor and title of invention, the filing date based on the ''Express Mail'' procedure, the serial number from the return post card or the attorney's docket number added.

[x] A copy of the Notice to File Missing Parts of Application-Filing Date Granted (Form PTO-1533) is enclosed.

NOTE: The PTO requires that a copy of Form PTO-1533 be returned with the response to the notice to file missing parts to the application.

DECLARATION OR OATH

II. [] No declaration or oath was filed. Enclosed is the original declaration or oath for this application.

OR

- [x] The declaration or oath that was filed was determined to be defective. A new original oath or declaration is attached.
- NOTE: 37 CFR 1.41(a) points out that ''Full names must be stated, including the family name and at least one given name without abbreviation together with any other given name or initial.''
- NOTE: For surcharge fee for filing declaration after filing date complete item VI(3) below.

NOTE: Acceptable minimums in the declaration for identification of the specification to which it applies are the name of the inventor and (1) serial number (2) attorney docket number which was on the application as filed and the filing date (3) title of the invention and filing date (4) title of invention and reference to a specification which is attached to the declaration at the time of execution and filed with the declaration or (5) title of invention and a statement by a registered attorney that the application filed in the PTO is the application which the inventor executed by signing the declaration. If identification (4) is used it must be accompanied by a statement that the ''attached'' specification is a copy of the specification and any amendments thereto which were filed in the PTO to obtain the filing date; such a statement must be a verified statement if made by a person not registered to practice before the PTO. Notice of September 12, 1983 (1035 O.G. 3).

NOTE: Another minimum found acceptable in the declaration is the filing date (i.e., date of express mail) and the express mail number, useful where the serial number is not yet known. But note the practice where the express mail deposit is a Saturday, Sunday or holiday within the District of Columbia. 37 CFR 1.10(c).

(complete (c) or (d), if applicable)

Attached is a

- (c) [] Statement by a registered attorney that the application filed in the PTO is the application that the inventor executed by signing the declaration.
- (d) [] Statement that the ''attached'' specification is a copy of the specification and any amendments thereto that were filed in the PTO to obtain the filing date.

AMENDMENT CANCELLING CLAIMS

III.
[] Cancel claims inclusive.

TRANSMITTAL OF ENGLISH TRANSLATION OF NON-ENGLISH LANGUAGE PAPERS

- IV. [] Submitted herewith is a verified English translation of the non-English language application papers as originally filed. It is requested that this translation be used as the copy for examination purposes in the PTO.
- NOTE: For fee processing a non-English application, complete item VI(5) below.
- NOTE: A non-English oath or declaration in the form provided or approved by the PTO need not be translated. 37 CFR 1.69(b).
- NOTE: The translation for a regular application filed in a foreign language must be verified. 37 CFR 1.52(d).

٧.

[x] A verified statement that this filing is by a small entity

NOTE: If an original verified statement and a refund request is filed within two months of the date of payment of a fee, then the excess fee paid will be refunded on request. 37 CFR 1.28(a).

will be refunded on request. 37 CFR 1.28(a).	
(check and complete applicable ite	ms)
[x] is attached.	
[] A separate refund request accompanies	this paper.
[] was filed on(original). A verified statement is attached hereto.	copy of the original
COMPLETION FEES	
VI.	
WARNING: FAILURE TO SUBMIT THE SURCHARGE FEES WHERE FAPPLICATION TO BECOME ABANDONED. 37 CFR 1.53	
NOTE: The filing fees, fees for claims and surcharge items 1, 2 and 3 are reduced by 50% where proof status is established on or before the date the full fee was paid but a verified statement is f the date of timely payment of a fee then the exrefunded on request. 37 CFR 1.28(a).	of a small entity e fee is paid. If the iled within 2 months of
1. Filing fee	
[] original patent application (37 CFR 1.16(a)-\$760.00; Smallentity-	\$380.00) \$
[] design application (37 CFR 1.16(f)-\$310.00; smallentity-	·\$155.00) \$
	\$
2. Fees for claims	
[] each independent claim in excess of 3 (37 CFR 1.16(b)-\$78.00; smallentity-	\$39.00) \$
[] each claim in excess of 20 (37 CFR 1.16(c)-\$18.00; smallentity-	\$9.00) \$
[] multiple dependent claim(s) (37 CFR 1.16(d)-\$260.00; smallentity	-\$130.00) \$
3. Surcharge fees	
[] late payment of filing fee	
and/or	
[x] late filing of original declaration or oath	

NOTE: Even where a facsimile declaration or oath signed by the inventor(s) was part of the originally filed papers, the surcharge fee is

(verified statements of small entity status filed herewith)

(37 CFR 1.16(e)-\$130.00; smallentity-\$65.00);

(Completion of Filing Requirements [5-1]-page 3 of 6)

65.00

required.

If both the foriginal paper 1.16(e).	iling fee and rs, only one	d declarati surcharge	on or oath	n were miss oth need be	ing from the paid. 37 CFR
•					

4. [<pre>Petition and fee for filing by other than all the inventors or a person not the inventor</pre>	
5. (<pre>Fee for processing an application filed with a specification in a non-English language \$</pre>	
6. [] Fee for processing and retention of application \$	
7. [x] Assignment (See "ASSIGNMENT COVER SHEET".)	\$40.00
NOTE:	37 CFR 1.21(1) establishes a fee for processing and application which is abandoned for failing to comple pursuant to 37 CFR 1.53(d) and this, as well as, the 1.53 and 1.78 indicate that in order to obtain the 1 U.S. application, either the basic filing fee or the retention fee of S 1.21(1) within 1 year of notifical S1.53(d) must be paid.	ete the application contact the changes to 37 CFR penefit of a prior processing and
	Total completion fees	\$ 105.0
VII.	EXTENSION OF TIME	
	(COMPLETE (A) OR (B), AS APPLICABLE)	
	proceedings herein are for a patent application, and 1.136(a) apply.	the provisions of
(a) [ɔ	Applicant petitions for an extension of time, the set out in 37 CFR 1.17(a)-(d), for the total numb checkedbelow:	fees for which are er of months
	The for other than	Fee for

Extension	Fee for other than	Fee for
(months)	small entity	small entity
[] one month	\$ 110.00	\$ 55.00
[] two months	\$ 380.00	\$190.00
[x] three months	\$ 870.00	\$435.00
[] four months	\$1,360.00	\$680.00

Fee \$ 435.00

If an additional extension of time is required please consider this a petition therefor.

(check and complete the next item, if applicable)

[] An extension for _____months has already been secured, and the fee paid therefor of \$_____is deducted from the total fee due for the total months of extension now requested.

Extension fee due with this request \$ 435.00

or

(b) [] Applicant believes that no extension of term is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition and fee for extension of time.

(Completion of Filing Requirements [5-1]-page 4 of 6)

VIII.

The total fee due is

Completion fee(s) \$ 105.00

Extension fee (if any) \$ 435.00

Total Fee Due \$ _____540.00

PAYMENT OF FEES

IX.

- [x] Enclosed is a check in the amount of \$ 540.00
- [] Charge Account No. _____in the amount of \$_____.

 A duplicate of this request is attached.

NOTE: Fees should be itemized in such a manner that it is clear for which purpose the fees are paid. 37 CFR 1.22(b).

AUTHORIZATION TO CHARGE ADDITIONAL FEES

х.

- WARNING: ACCURATELY COUNT CLAIMS, ESPECIALLY MULTIPLE DEPENDANT CLAIMS, TO AVOID UNEXPECTED HIGH CHARGES IF EXTRA CLAIMS ARE AUTHORIZED.
 - [x] The Commissioner is hereby authorized to charge the following additional fees that may be required by this paper and during the pendency of this application to Account No. 02-1065 ______.
 - [x] 37 CFR 1.16(a), (f) or (g) (filing fees)
 - [x] 37 CFR 1.16(b), (c) and (d) (presentation of extra claims)
- NOTE: Because additional fees for excess or multiple dependent claims not paid on filing or on later presentation must only be paid or these claims cancelled by amendment prior to the expiration of the time period set for response by the PTO in any notice of fee deficiency (37 CFR 1.16(d)), it might be best not to authorize the PTO to charge additional claim fees, except possibly when dealing with amendments after final action.
 - [x] 37 CFR 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)
 - [x] 37 CFR 1.17 (application processing fees)
- WARNING: WHILE 37 CFR 1.17(A), (B), (C) AND (D) DEAL WITH EXTENSIONS OF TIME UNDER S 1.136(A) THIS AUTHORIZATION SHOULD BE MADE ONLY WITH THE KNOWLEDGE THAT: ''SUBMISSION OF THE APPROPRIATE EXTENSION FEE UNDER 37 CFR 1.136(A) IS TO NO AVAIL UNLESS A REQUEST OR PETITION FOR EXTENSION IS FILED.'' (EMPHASIS ADDED). NOTICE OF NOVEMBER 5, 1985 (1060 O.G. 27).
 - [] 37 CFR 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 CFR 1.311(b))
- NOTE: Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance. 37 CFR 1.311(b).

(Completion of Filing Requirements [5-1]-page 5 of 6)

NOTE: 37 CFR 1.28(b) requires ''Notification of any change in loss of entitlement to small entity status must be filed in the application ... prior to paying, or at the time of paying ... issue fee''. From the wording of 37 CFR 1.28(b): (a) notification of change of status must be made even if the fee is paid as ''other than a small entity' and (b) no notification is required if the change is to another small

IGNATURE OF ATTORNEY

Reg. No. 34,772

entity.

Tel. No.: (412) 338-8632 Fax. No.: (412) 338-6611

Henry E. Bartony, Jr. (TYPE OR PRINT NAME OF ATTORNEY)

Law & Finance Building

Suite 1801

429 Fourth Avenue

Pittsburgh, Pennsylvania 15219

P.O. Address



CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to: The Assistant Commissioner for Patents, Washington D.C. 20231.

On September 25, 2000

Henry E. Bartony Jr. Registration No. 34,772

September 25, 2000

Date

Attorney's	Docket No. 99-038 PATENT
Applicant c	or Patentee:DENNIS P. CURRAN ET AL
Application	n or Patent No.: 09/506,779
Filed or Is	ssued:February 18, 2000
	For: REACTION AND SEPARATION METHODS
VERIFIED S	STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 CFR 1.9(f) and 1.27(d))-NONPROFIT ORGANIZATION
I hereby nonprofit o	declare that I am an official empowered to act on behalf of the organization identified below:
Name of Org	ganizationUniversity of Pittsburgh
Address of	Organization Cathedral of Learning
	Pittsburgh, PA 15260 U.S.A.
TYPE OF ORC	GANIZATION
[x]	University or Other Institution of Higher Education
	Tax Exempt Under Internal Revenue Service Code (26 USC 501(a) and 501(c)(3))
DEMARK O	Nonprofit Scientific or Educational Under Statute of State of the United States of America
DEMA	(Name of State)
	(Citation of Statute)
[]	Would Qualify as Tax Exempt Under Internal Revenue Service Code (26 USC 501(a) and 501(c)(3)), if Located in the United States of America
[]	Would Qualify as Nonprofit Scientific or Educational Under Statute of State of the United States of America if Located in the United States of America
	(Name of State)
	(Citation of Statute)
as a nonpr	declare that the nonprofit organization identified above qualifies ofit organization, as defined in 37 CFR 1.9(e), for purposes of uced fees under Sections 41(a) and (b) of Title 35, United States regard to the invention entitled
	REACTION AND SEPARATION METHODS
by invento	or(s) DENNIS P. CURRAN ET AL
described	in

I hereby declare that rights under contract or law have been conveyed to, and remain with, the nonprofit organization, with regard to the above identified invention.

If the rights held by the nonprofit organization are not exclusive, each individual, concern or organization having rights to the invention is listed below* and no rights to the invention are held by any person, other than the inventor, who could not qualify as a small business concern under 37 CFR 1.9(d), or by any concern that would not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.9(e)

*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27).

Name
Address
[] INDIVIDUAL [] SMALL BUSINESS CONCERN [] NONPROFIT ORGANIZATION
Name
Address
INDIVIDUAL [] SMALL BUSINESS CONCERN [] NONPROFIT ORGANIZATION
It acknowledge the duty to file, in this application or patent, notification of fany charge in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.
Name of Person Signing Frances J. Connell
Title in Organization Director, Office of Technology Transfer and Intellectual Property
Address of Person Signing 911 William Pitt Union Pittsburgh, PA 15260 U.S.A.
SIGNATURE January Connect Date 9/20/00